1 Attorney Docket No. 83032

and curved plate.

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3 GRAVITY-ACTUATED SUBMARINE ANTENNA

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5 ABSTRACT OF THE DISCLOSURE

An antenna including a feed tube with radial fins and 6 circular plates at the ends of the tube and fins thereby forming 7 a boundary for a plurality of resonant cavities. Curved plates, connected to the tube by switches of a switching system, 9 partially encompass and subtend to the length of the tube. 10 Interior to the tube, a transmission line from an end plate 11 12 terminus conducts radio-frequency energy from the terminus to a hub and onto a switch of the switching system in which the 13 switch is mechanically reactive to and actuated by a righting 14 action of the curved plates when the curved plates encounter a 15 sea state. When actuated, energy from the switch distributes to 16 a proximate resonant cavity and curved plate to form a radiation 17 pattern based on the difference in phase of the resonant cavity 18